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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,369	08/06/2003	Paul S. Thompson		2924
32104 7590 12/12/2007 PAUL THOMPSON 11472 TREE HOLLOW LANE			EXAMINER	
			ALI, SHUMAYA B	
SAN DIEGO, O	JA 92128		ART UNIT	PAPER NUMBER
			3771	
			MAIL DATE	DELIVERY MODE
			12/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	I A N	
	Application No.	Applicant(s)
Office Action Comment	10/634,369	THOMPSON, PAUL S.
Office Action Summary	Examiner	Art Unit
	Shumaya B. Ali	3771
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI ,36(a). In no event, however, may a will apply and will expire SIX (6) MOI e, cause the application to become A	ICATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 7/10	<u>/07</u> .	
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	s action is non-final.	
3) Since this application is in condition for allowal closed in accordance with the practice under E	•	•
Disposition of Claims	•	
4) ☐ Claim(s) 1-7,9-13 and 15 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7,9-13 and 15 is/are rejected. 7) ☐ Claim(s) is/are objected to.	wn from consideration.	
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers		
9) The specification is objected to by the Examine		to but he Fuerrings
10) ☐ The drawing(s) filed on <u>12/19/03</u> is/are: a) ☐ a	· · · · · · · · · · · · · · · · · · ·	•
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	•	• •
11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·	
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		§ 119(a)-(d) or (f).
1. Certified copies of the priority document		Application No.
<ul><li>2. Certified copies of the priority document</li><li>3. Copies of the certified copies of the priority</li></ul>		
application from the International Burea	•	Treceived in this National Stage
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	t received.
	o, and common copies incl	
Attachment(s)	<b>.</b>	0 (070 440)
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li></ol>	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application

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#### **DETAILED ACTION**

## Status of Claims

No amendment to claims is made in response to the office action mailed on 4/4/07.

Claims 8, 14, and 16-19 are previously cancelled. Currently claims 1-7, 9-13, and 15 are pending in the instant application.

#### Claim Objections

Claim 3 is objected to because of the following informalities: in line 2, the recitation of "second said gas directing orifice" may be referring to orifice angles in the second plane toward each other. Appropriate correction is required.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Argraves US 6,298,850 B1.

As to claim 1, Argraves in his specification and drawings discloses a nasal cannula assembly (see fig.3) designed for contact with the nasalabidial area of a patient's nose (as seen in figures 1 and 2) and comprising a hollow tubular member (20/25), having a central portion (15) of sufficient length to span the width of an average patient's nostrils (as seen in fig.1) and end portions extending from each end of said central portion (see fig.3), said central portion having a pair of spaced, hollow extensions (figure 3 shows two tubes terminating at orifice 13 and 17)

integral with and projecting therefrom said hollow extensions terminating in gas directing orifices (orifice 13 and 17) and which hollow portion of said extensions communicate with said hollow main body portion (10), said central portion lying in a first plane with longitudinal axes symmetrical about a midpoint (point at the center of 15) and forming an angle in said first plane less than 160 degrees (in col.3, lines 25-27 Argraves discloses the central portion has a bend forming a "v" or "u" shape structure, thus the claimed angle is inherent. "U" shaped makes a angle close to 45 degrees which is less than 160 degrees), each said hollow extension having a longitudinal axis projecting from said central portion at an arcuate angle (U at the main body forms acute angle, see fig.3) from said first plane, said gas directing orifices of said hollow extensions having a longitudinal axis lying in a second plane essentially parallel to and displaced from said first plane (see fig.3), said end portions of said central portion lying in essentially the first plane with longitudinal axis of said end portion essentially collinear with longitudinal axis of corresponding symmetrical half of said central portion (see fig.3), said end portion of said central portion laying in essentially the first plane with longitudinal axis of said end portion essentially collinear with longitudinal axis of corresponding symmetrical half of said central portion (see fig.3).

As to claim 3, Argraves in figure 3 shows cannula/hollow extension curves acutely to from a U-shaped structure, thus making each of the orifices to angle acutely toward each other.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Argraves US 6,298,850 B1.

As to claim 2, Argraves lacks orifice size is less than .0006 inch. However, nasal cannula with small diameter orifice is known in the art. Furthermore, it would have been obvious to one of ordinary skill in the art to modify Argraves in order to provide the orifice size as claimed for the purposes of preventing laceration of soft tissue inside the nostril. Furthermore, certain medication requires jetting effect though small diameter nozzle/orifice to efficiently deliver medication a patient.

Claims 4-7, and 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Argraves US 6,298,850 B1 in view of Applicant's admission of prior art (see remarks filed on 7/10/07).

As to claims 4-7, and 9-13, Argraves discloses a nasal cannula assembly (see fig.1-4) designed for contact with the nasalabidial area of a patient's nose (as shown in fig.2) comprising at least one main supply tube (20). Argraves further discloses a flexible supply tube (see col.2, lines 53 and 54). Argraves however lacks specific tensile modulus, shore hardness, compression, brittle temperature, and molecular weight of the supply tube as claimed. However, Applicant admits that "the tubing and the correct nosepieces have been around for at least ten years" (see page 11, lines 2-4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Argraves to provide the supply tubing structure as claimed because tubing structure as claimed is known to one of ordinary skill in the art, therefore,

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substituting one supply tube for another would only involve routine skills in the art. One of ordinary skill in the art furthermore would be motivated to substitute Argraves' tube with a very soft supply tube (as render by the claimed tubing structure) for the purposes of providing a light weight nasal cannula assembly which is easier for user to carry or enhancing portability of the assembly.

#### Response to Arguments

Applicant's arguments with respect to claims 1-7, 9-13, and 15 have been considered but are most in view of the new ground(s) of rejection.

With respect to claim 1 Applicant argues for cannula having a "vee" shape at the central potion, see remarks filed on 7/10/07 page 15, lines 25 and 26; however, the term "vee" is not supported by the claim.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ellman (2,763,263) pertain to nasal cannula with small diameter nozzle.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shumaya B. Ali whose telephone number is 571-272-6088. The examiner can normally be reached on M-W-F 8:30am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine Yu can be reached on 571-272-4835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sbaffa ya B. A Examiner Art Unit 3771

JUSTINE R. YU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

12/10/01